FUNAI

HD Streaming Player with Built-in WiFi

TB600FX2

Owner's Manual

FUNAI

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LIMITED WARRANTY ..... back cover

2. FEATURES

2.1 Features

VUDU

This unit supports VUDU which is the leading HD on-demand video service. With VUDU, you can also enjoy various kinds of Internet applications. In order to use this feature, you must connect this unit to the Internet. (This feature is only available in the United States.)

Netflix

With this unit, you can enjoy movies and TV episodes streamed instantly from Netflix via the Internet. In order to use this feature, you must visit netflix.com/FUNAI on your PC and become a Netflix member. (This feature is only available in the United States.)

Film Fresh / Blockbuster

With this unit, you can enjoy movies and TV episodes streamed instantly from Film Fresh / Blockbuster via the Internet. In order to use this feature, you must visit the below websites on your PC and become a Film Fresh / Blockbuster member. (This feature is only available in the United States.)
- Film Fresh : filmfresh.roxionow.com/Login
- Blockbuster : www.blockbuster.com/auth/login

Pandora® internet radio

This unit supports Pandora internet radio service. You can instantly listen to free personalized radio stations streamed over the Internet from Pandora. In order to use this feature, you must visit the below website on your PC and become a Pandora member. (This feature is only available in the United States.)
- www.pandora.com/funai

Picasa

With Picasa application, you can browse your web albums on your TV screen. Picasa helps you organize a number of photographs of yours, so you can easily find particular photographs with an easy operation.

Easy and simple connection to your HDTV with an HDMI (High-Definition Multimedia Interface) cable

Connect this unit to your HDTV with one single HDMI cable. It is recommended to use a High Speed HDMI cable for better compatibility. The high-definition video output signal will be transferred to your HDTV without conversion to analog signals, so you will get excellent picture and sound quality, completely free from noise. Thanks to other multiple outputs, you can also easily connect to your home theater system or amplifier.

fun-Link (HDMI CEC) (Consumer Electronics Control)

This unit supports fun-Link (HDMI CEC), which allows integrated system control over an HDMI cable and is part of the HDMI standard. This function may not work properly on some devices.

HDMI Deep Color

Deep Color reduces posterization (color banding) effect of the playback image.

2.2 Product Info

"Product Info" screen provides information about this unit's software version. When a newer version of software is available, you can update the software via the Internet.

To access "Product Info", follow the procedure below.

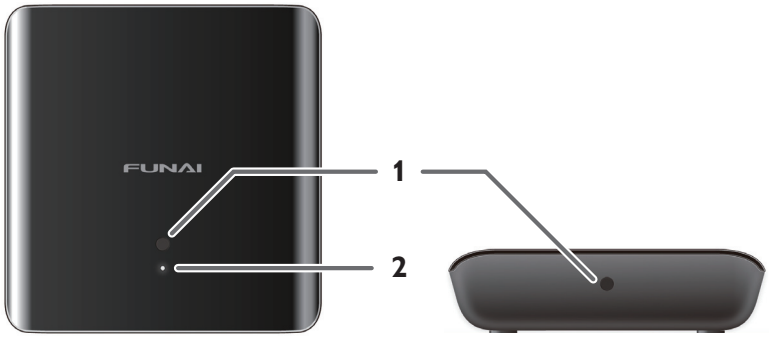
1. Press **[HOME].**
2. Use **[◄/►]** to select "Settings", then press **[OK]**.
3. Use **[▲/▼]** to select "Product Info".

■ Netflix ESN

You can view the ESN (Electronic Serial Number, which Netflix uses to identify your device) on the "Product Info" screen.

3. FUNCTIONAL OVERVIEW

3.1 Top / Front Panel



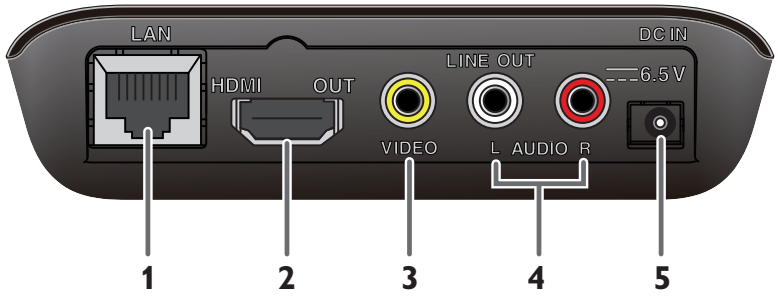
Top Front

1. Infrared sensor window
2. Standby/on indicator

Note

- Due to new ENERGY STAR® requirements, this unit will automatically turn On the screen saver after 5 minutes of inactivity and enter Standby mode after 25 minutes of inactivity.

3.2 Rear Panel



1. LAN terminal
2. HDMI OUT jack
3. VIDEO output jack
4. AUDIO output jacks (L/R)
5. DC IN jack

Caution

- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
- This unit does not have a TV RF modulator.

3.3 Remote Control

* The unit can also be turned On by pressing this button.

1. ⏻ (Standby/on) button

   Press to turn On the unit, or to switch the unit into Standby mode. (To completely turn Off the unit, you must unplug the AC adapter.)

2. HOME button

   Press to display the home menu.

3. OPTION button

   If a newer software is found when "Auto Update Check" is set to "On", the update notification appears in the home menu screen. Press this button to start update.

4. ▲/▼/◀/▶ buttons

   Press to select items or settings.

5. NET APP button

   Press to display the network application menu.

6. ◀◀ (reverse) button

   During playback, press to fast reverse the playback.

7. ▶ (play) button*

   Press to start playback or resume playback.

8. ⏮ (skip) button

   During playback, press once to return to the beginning of the current title.

9. ■ (stop) button

   Press to stop playback.

10. NETFLIX button

    Press to launch Netflix.

11. DISPLAY button

    Press to display the on-screen display menu.

12. OK button

    Press to confirm or select menu items.

13. RETURN button

    Press to return to the previous menu screen or screen function.

14. ▶▶ (forward) button

    During playback, press to fast forward the playback. When playback is in pause, press to slow forward the playback.

15. ⏭ (skip) button

    During playback, press to skip to the next title.

16. ⏸ (pause) button

    Press to pause playback.

17. VUDU button

    Press to launch VUDU.

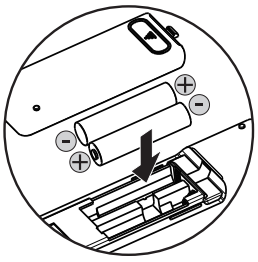
Note

- When the unit receives a signal from the remote control, the Standby/on indicator on the top panel turns Off.

Continued on next page.

■ Installing the Batteries in the Remote Control

Install 2 AAA (1.5V) batteries matching the polarity indicated inside the battery compartment of the remote control.



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Caution

Incorrect use of batteries can result in hazards, such as leakage and bursting. Please observe the following:

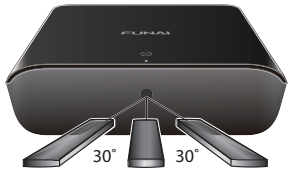
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (ni-cad, ni-mh, etc) batteries.
- Do not mix new and old batteries together.
- Do not use different kinds of batteries together. Although they may look similar, different batteries may have different voltages.
- Make sure that the + and - ends of each battery match the indications in the battery compartment.
- Remove batteries from the battery compartment when the remote is not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public rules that apply in your country or area.
- Do not recharge non-rechargeable batteries.
- Do not short-circuit, heat or burn any batteries.

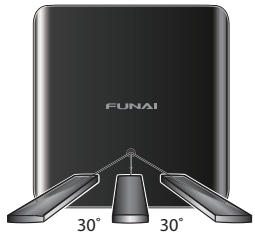
■ Using the Remote Control

Remote Control Usage Guidelines:

- To check remote operation, aim the remote at the unit then press any arrow button. The Standby/on Indicator on the unit will turn Off when the button is pressed and turn On again when the button is released. This confirms that the unit is receiving the IR remote signal.
- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Do not mount the device on the wall behind the TV as this would block the infrared sensor window from the remote infrared signal.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote controls of different devices can interfere with each other. Avoid using a remote control of another device which is located close to the unit.
- Replace the batteries when you notice a fall-off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.

Line of sight	: approx. 23 feet (7 m)
Either side of the center	: approx. 16 feet (5 m) within 30°
Above	: approx. 16 feet (5 m) within 15°
Below	: approx. 10 feet (3 m) within 30°

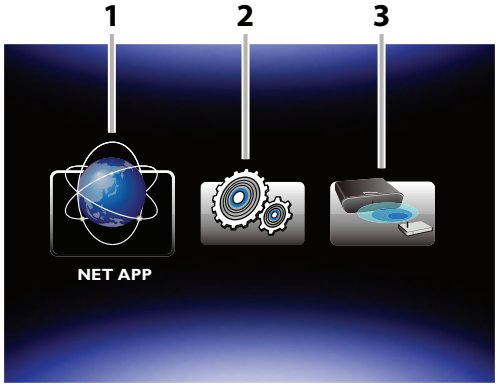




3.4 Guide to On-Screen Display

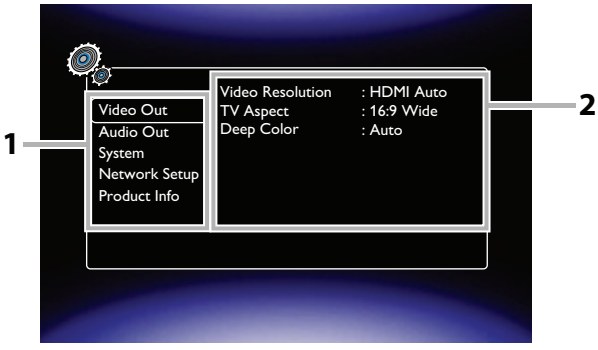
■ Home Menu

When you turn On the unit, the home menu will automatically appear. Otherwise, press **[HOME]**.



1. "NET APP" : To access the menu of network services
2. "Settings" : To access the setup menu
3. "Network Setup" : To configure network settings

■ Setup Menu

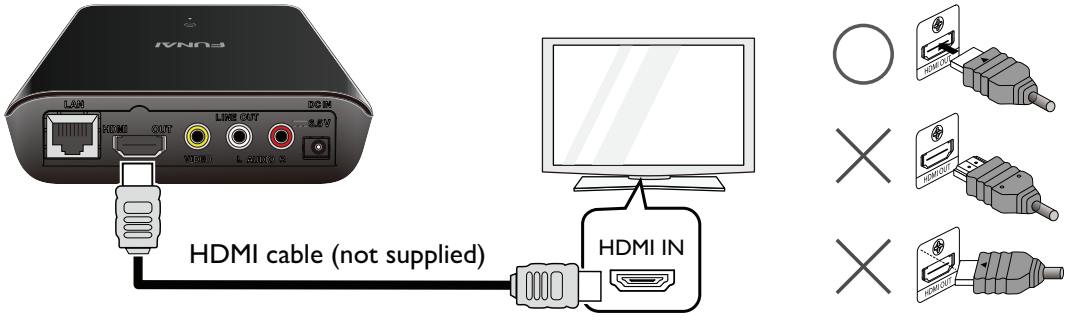


1. Categories
2. Menus / Options : Displays options for the highlighted item on the left whenever available.

4. CONNECTIONS

4.1 HDMI Video / Audio Connection

(Supports up to 1080p (outputs video data with a frame rate of 60 frames per second.)

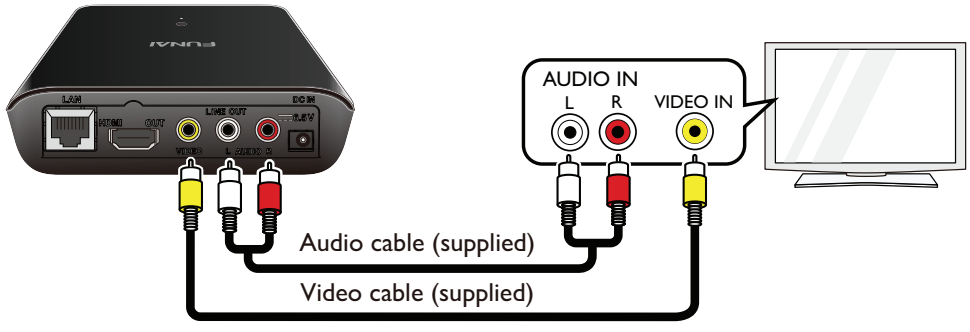


No audio connection required.

- Make sure the shapes of the jack and the connector are matched and do not tilt the HDMI connector when inserting it into the HDMI jack.
- When connected to an HDCP incompatible display device, the picture will not be displayed properly.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable) for this connection.
  High Speed HDMI cable (also known as HDMI category 2 cable) is recommended for better compatibility.

4.2 Standard Video + Standard Audio Connection

(Supports only 480i resolution.)



- Connect this unit directly to the TV. If the audio / video cables are connected to a VCR, then the pictures may be distorted due to the copyright protection system.

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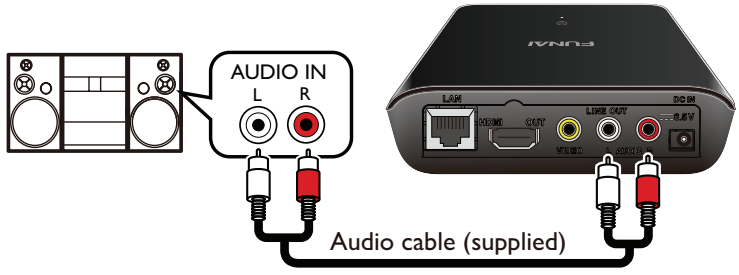
4.3 Connection to an Audio System

- When you change the connections, you should turn Off all the devices.
- When making connections with external devices, please refer to their user manuals for additional setup help.

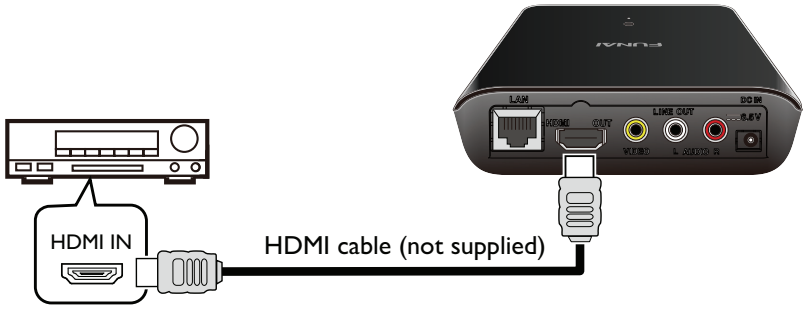
■ 2-Channel Analog Audio Connection

Stereo system with analog audio input jacks



■ HDMI Audio Connection

AV receiver/amplifier with an HDMI input jack



■ HDMI Audio Out

	Audio Source	PCM Stereo	Bitstream	PCM 5.1ch
VUDU	Dolby Digital Plus	2cn LPCM	Dolby Digital Plus	Multi LPCM*
	MP3	2cn LPCM	2cn LPCM	2cn LPCM
Netflix	WMA	2cn LPCM	2cn LPCM	2cn LPCM
Film Fresh	AAC	2cn LPCM	2ch AAC	2cn LPCM
Blockbuster	AAC	2cn LPCM	2ch AAC	2cn LPCM
Pandora®	MP3	2cn LPCM	2cn LPCM	2cn LPCM

* Fully decoded.

Note

- If the connected device is not compatible with the HDMI BITSTREAM then audio will be output as multi LPCM or 2-channel down-mixed LPCM based on the capability of the connected device even if you select "Bitstream" in "Audio Out" setting.
- If the connected device is not compatible with AAC, audio will be output as LPCM based on the capability of the connected device.

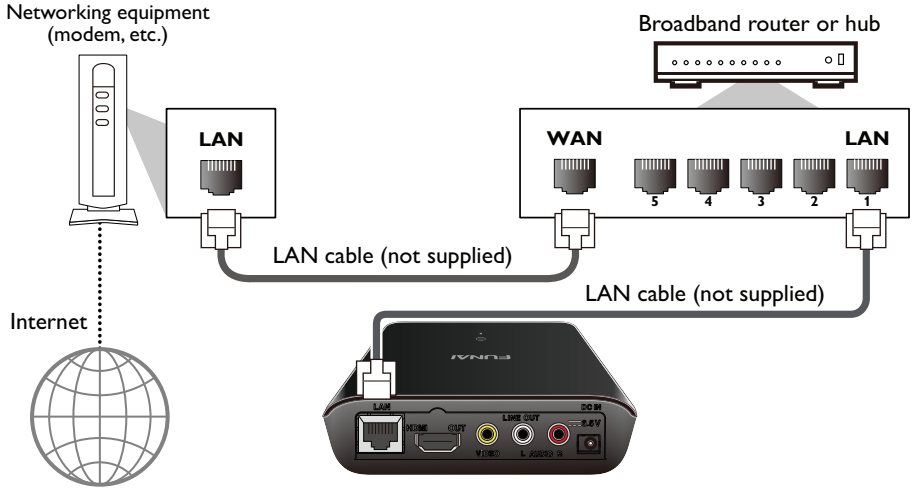
4.4 Connection to the Network

By connecting this unit to the Internet you can update the software via the Internet or play contents of the network services. For more information about a software update, refer to "Network Update" on page 24.

Note

- Wired connection is recommended when using the following features. (Using the following features with a wireless connection can be affected by other devices using radio frequencies.)
  - Video streaming services (VUDU / Netflix / Film Fresh / Blockbuster)
  - Listening to Internet radio (Pandora®)
  - Network update

■ Wired Connection



Caution

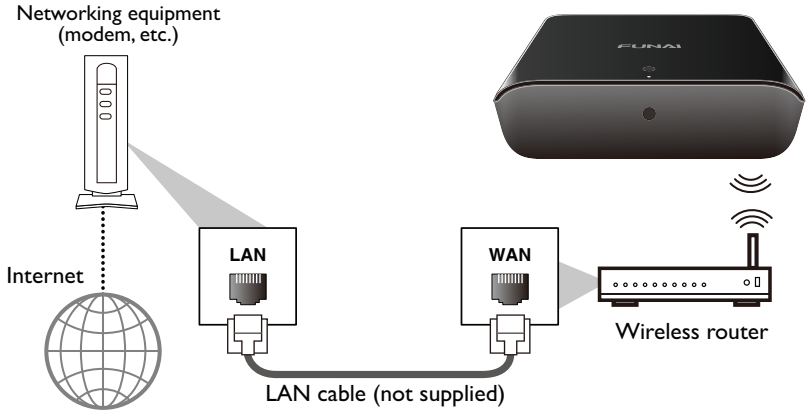
- Do not insert any cable other than a LAN cable to the LAN terminal to avoid damaging the unit.
- Do not connect your PC directly to the LAN terminal of this unit.

Note

- After you make a wired connection, perform the necessary network setup. (For network settings of a wired connection, refer to "Wired" on page 17.)
- If your cable modem does not have router functions, use a wired router.
- If your cable modem has router functions but there is no vacant port, add a hub.
- For a wired router, use a router which supports 10BASE-T / 100BASE-TX ETHERNET standard.
- Please purchase shielded LAN cables at your local store and use them to connect the unit to network equipment.

Continued on next page.

■ Wireless Connection



Note

- After you made a wireless connection, perform the necessary network setup. (For the network settings of a wireless connection, refer to "Wireless" on page 19.)
- For a wireless router, use a router which supports IEEE 802.11 b/g/n. ("n" type is recommended for stable operations of the wireless network.)
- Set the wireless router to Infrastructure mode. This unit does not support Ad-hoc mode.
- Other radio devices or obstacles may cause interference to a wireless network connection.

5. BEFORE YOU START

5.1 Finding the Viewing Video Source Input on Your TV

After you have connected this unit to your TV with either an HDMI cable or video and audio cables, find the viewing source (external input source) on your TV.

1. Turn On your TV.
2. Press the button on the TV's remote control that accesses the external input source. It may be labeled "SOURCE", "AV", "AUX" or "INPUT" (refer to your TV's user manual).
3. Plug the AC adapter for this unit into the unit (DC IN jack) and then into an AC outlet.

This is the correct viewing source (external input source).

- If the TV is connected with an HDMI cable, it may take a while for the opening picture to come up.
- "Please Wait..." screen is output only when the unit is connected to a TV with an HDMI cable.

5.2 Initial Setup

Please follow the instructions below to complete the initial setup.

1. While the welcome screen is displayed, use **[◄/►]** to select "Next", then press **[OK]**.
2. Language setup screen will appear. Use **[▲/▼]** to select your language, then press **[OK]**. After this, use **[▲/▼/◄/►]** to select "Next", then press **[OK]**.

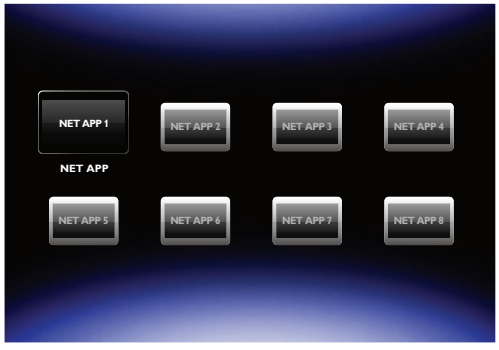
3. "Auto Update Check" screen will appear. Use **[▲/▼]** to select the desired mode, then press **[OK]**. After this, use **[▲/▼/◄/►]** to select "Next", then press **[OK]**.
   - Network setup screen will appear. In order to proceed with the network setup, see "Network Connection" on page 17.
   - This unit automatically detects whether or not a LAN cable is connected to it.
     - If a LAN cable is connected to this unit, "Wired IP Settings" screen will appear.
     - If a LAN cable is not connected to this unit, "Wireless" screen will appear.

6. USING NETWORK FEATURES

6.1 Preparation for Network Features

Please follow the instructions below before using the network features.

1. Connect this unit to the Internet.
   - Refer to "Connection to the Network" on page 11.
2. Perform the necessary network connection setup.
   - Refer to "Network Connection" on page 17.
3. Press **[NET APP]**.



4. Select the desired application, then press **[OK]**.
   - For the first time only, the "Network Service Disclaimer" screen will appear. After confirming the content, use **[◄/►]** to select "Agree", then press **[OK]**.
5. Press **[HOME]** to exit.

Note

- The Network Service Disclaimer is displayed when first using a network service and its acceptance is applied to all network services.

6.2 Information on Network Services

For detailed information on the third-party Internet services, please visit each service provider's website:

Netflix : **http://www.netflix.com/HowItWorks**

Film Fresh : **http://filmfresh.roxionow.com/**

Blockbuster : **http://www.blockbuster.com**

VUDU : **http://www.vudu.com/product_overview.html**

Pandora : **http://www.pandora.com**

7. LIST OF SETTINGS

In the setup menu, you can customize various kinds of settings as you prefer. Refer to the following instructions to navigate through the setup menu.

1. Press **[HOME]** to access the home menu.
2. Use **[◄/►]** to select "Settings", then press **[OK]**.
3. Use **[▲/▼]** to select the desired setting, then press **[OK]**.
4. Use **[▲/▼]** to move the highlight up and down in the list.
5. To make a selection or to access options of an item, select the desired item, then press **[OK]**.
   - To go back to the previous screen, press **[RETURN]**.
6. Press **[HOME]** to exit.

Refer to the following table for the types of settings you can customize.
The item highlighted in gray is the default setting.

Categories	Menus / Options		
Settings	Video Out	Video Resolution	HDMI Auto
			1080p
			1080i
			720p
			480p
			480i
		TV Aspect	16:9 Wide
			16:9 Pillarbox
			4:3 Pan & Scan
			4:3 Letterbox
		Deep Color	Auto
			Off
	Audio Out	DRC	On
			Off
		Digital Output	PCM Stereo
			Bitstream
			PCM 5.1

Continued on next page.

Categories	Menus / Options		
Settings	System	Language	English
			Français
			Español
		fun-Link (HDMI CEC)	On
			Off
		Auto Update Check	On
			Off
		Network Update	
		Initialize	Restore factory settings and deactivate all connected applications
			Restore factory settings
			Deactivate all connected applications
			Deactivate Netflix
			Deactivate BLOCKBUSTER
			Deactivate FILM FRESH
			Deactivate Picasa
			Deactivate Pandora
			Deactivate VUDU
		Disclaimer	
		OSS	
	Network Setup	Network List	
		Easy Connect (WPS)	
		Manual	
		IP Settings	
		Network Test	
	Product Info		

8. SETUPS

8.1 Network Connection

[HOME] → "Network Setup"

Perform the network connection setup in order to use the network features, such as Netflix / BLOCKBUSTER / FILM FRESH / Picasa / Pandora / VUDU and the network update function.

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Note

- Once a network connection is established, you are ready to use the network features, such as Netflix / BLOCKBUSTER / FILM FRESH / Picasa / Pandora / VUDU and the network update function, using the Internet without making any additional settings.
- If a network connection could not be established, you may need to check your router settings and make sure the physical connection is secure. If you need the MAC address of this unit to complete your router settings, you can view it on "Network Setup" screen under "Settings" in the home menu.
- When connecting this unit directly to a modem for the first time or connecting it to a modem which was previously connected to any other network device (e.g. a router, PC, etc.), you may have to power cycle the modem (unplug the modem's and/or router's AC plug from its AC outlet for 30 seconds and then plug it back in), this may reset the settings in the modem.
  If you have a telephone/Internet modem with your cable service then you may have to use its reset button or remove the backup battery to reset this type of modem.

■ Wired

Connect this unit to a modem / router with a LAN cable before setting up. This unit will then automatically detect the LAN connection and leads you to the appropriate setup screen.

Auto (Wired)

Select "Auto" to set the network setting automatically.

1. Use **[◄/►]** to select "Network Setup" in the home menu, then press **[OK]**.
2. At "IP Mode", press **[OK]** , and set it to "Auto", then press **[OK]**.
3. Use **[▲/▼/◄/►]** to select "Apply", then press **[OK]**.
   - The unit will start a network test, and the test result will appear right after the test finishes.
4. If the network test passes, press **[OK]**.

Continued on next page.

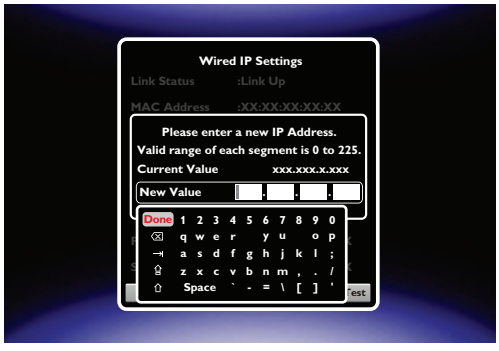
Manual (Wired)

In the following cases, select "Manual"(wired) to set each setting as necessary.

- If a network connection could not be established when the setting was "Auto"(wired).
- When instructed by your Internet service provider to make specific settings in accordance with your network environment.

1. Use **[◄/►]** to select "Network Setup" in the home menu, then press **[OK]**.
2. At "IP Mode", press **[OK]** , and set it to "Manual", then press **[OK]**.

3. Use **[▲/▼]** to select "IP Address", then press **[OK]**.
4. The IP address setting screen will appear. Enter an IP address using **[▲/▼/◄/►]** on the software keyboard, then select "Done", then press **[OK]**.


Wired IP Settings
Link Status :Link Up
MAC Address :XX:XX:XX:XX:XX:XX
Please enter a new IP Address.
Valid range of each segment is 0 to 225.
Current Value xxx.xxx.x.xxx
New Value
Done 1 2 3 4 5 6 7 8 9 0
q w e r y u o p
a s d f g h j k l ;
z x c v b n m , . /
Space ` - = \ [ ] '

- The software keyboard shows up by pressing **[OK]** on the remote while in a number cell.
- When inputting a single character using the software keyboard as soon as you press **[OK]** on the remote to input that character, then the character is displayed for a very short time to allow you to confirm that this was the correct character.
- Enter an IP address after checking the specifications of your router.
- If an IP address is unknown, check the IP address of other devices (e.g. PC connected with a LAN cable). Then, in the furthest cell to the right, assign a different number from those other devices.

5. Use **[▲/▼]** to select "OK", then press **[OK]**.
6. Repeat the same procedure as steps 4 to 5 for "Subnet Mask", "Default Gateway", "Primary DNS" and "Secondary DNS".
   - Enter the DNS addresses provided by your Internet provider.
   - If the DNS address is unknown, check the DNS address of other devices (e.g. PC connected with a LAN cable) and assign the same DNS address.
7. Use **[▲/▼/◄/►]** to select "Apply", then press **[OK]**.
   - The unit will start a network test, and the test result will appear right after the test finishes.
8. If the network test passes, press **[OK]** to exit.

Continued on next page.

Note for "IP Address", "Subnet Mask", "Default Gateway", "Primary DNS" and "Secondary DNS"

- The range of input numbers is between 0 and 255.
- When you enter a wrong number, click on ⌫ on the software keyboard to clear the incorrect number.
- To correct the wrong number in the previous cell, press **[RETURN]** to start over.
- If you want to enter a 1 or 2-digit number in one cell, type in on the software keyboard "001" for a 1-digit number, and "011" for a 2-digit number.

EN

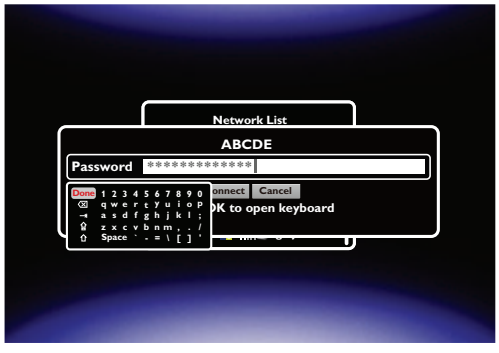
■ Wireless

This unit automatically detects nearby wireless networks when a LAN cable is not connected to the unit. Please make sure a LAN cable is not connected to the LAN terminal of this unit when making a wireless connection. Before proceeding with the setup, make a note of the SSID (your network name) and its password (WEP / WPA key).

Network List (Wireless)

1. Use **[◄/►]** to select "Network Setup" in the home menu, then press **[OK]**.
2. Use **[▲/▼]** to select "Network List", then press **[OK]**.
   - This unit will automatically start searching for wireless networks.
3. The result of wireless network searching will be displayed. Use **[▲/▼]** to select the appropriate SSID, then press **[OK]**.
   - If you select an SSID with " 🔒 ", please go to step 4.

4. "Password" entry screen will appear. Enter the WEP / WPA key of the selected wireless network using **[▲/▼/◄/►]** on the software keyboard, then select "Done", then press **[OK]**.

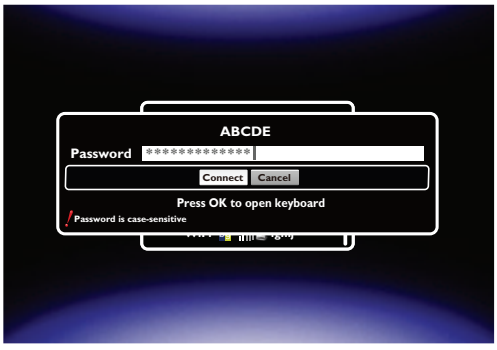


   - The software keyboard shows up by pressing **[OK]** on the remote in the password input field.
   - When inputting a single character using the software keyboard as soon as you press **[OK]** on the remote to input that character, then the character is displayed for a very short time to allow you to confirm that this was the correct character.

Continued on next page.

- If you do not know the WEP / WPA key for your wireless network, ask your ISP or the person who set up your wireless network

5. Use **[▲/▼/◄/►]** to select "Connect", then press **[OK]**.



6. If a connection succeeded, press [OK] to finish the setting, then press [RETURN] to exit.

Note

- When entering characters from the screen keyboard, look at the screen immediately after pressing the key to select the character. For a very short time the character you selected is displayed before the dot replaces the character for security reasons.
- The internal wireless LAN supports following specifications.

  - Wireless standards : IEEE 802.11 b/g/n
  - Frequency spectrum : 2.4 GHz
  - Security protocol : WEP / WPA / WPA2

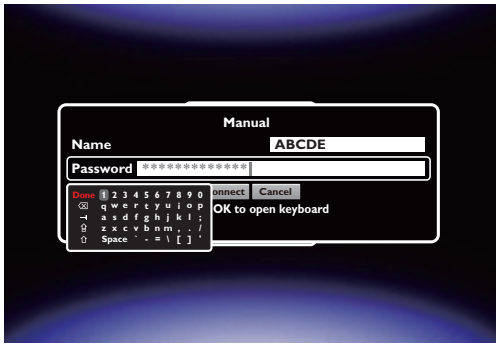
Manual (Wireless)

Set up the connection to the wireless router manually by entering the wireless network name (SSID).

In the following cases, select "Manual"(wireless) to perform each setting as necessary.

- When a connection test failed with the setting of "Network List"(wireless)

1. Use **[◄/►]** to select "Network Setup" in the home menu, then press **[OK]**.
2. Use **[▲/▼]** to select "Manual", then press **[OK]**.
3. SSID (wireless network name) entry screen will appear. Enter the SSID using **[▲/▼/◄/►]** on the software keyboard, then select "Done", then press **[OK]**.
   - The software keyboard shows up by pressing **[OK]** on the remote in the SSID input field.
   - When inputting a single character using the software keyboard as soon as you press **[OK]** on the remote to input that character, then the character is displayed for a very short time to allow you to confirm that this was the correct character.
4. "Password" entry screen will appear. Enter the WEP / WPA key of the selected wireless network using **[▲/▼/◄/►]** on the software keyboard, then select "Done", then press **[OK]**.



Continued on next page.

5. Use **[▲/▼/◄/►]** to select "Connect", then press **[OK]**.
6. If a connection succeeded, press **[OK]** to finish the setting, then press **[RETURN]** to exit.
   - If you do not know the password (WEP / WPA / WPA2 key) for your wireless network, ask your ISP or the person who set up your wireless network.

Easy Connect

You can set up the wireless connection quickly.

- "Easy Connect (WPS)" (Wi-Fi Protected Setup) is only available when your router supports it. For details, please refer to the user manual of your wireless router.

EN

Push Button Method

Please confirm your wireless router has a PBC (Push Button Configuration) button. If the router does not have it, please perform the "Network List" setup.

1. Use **[◄/►]** to select "Network Setup" in the home menu, then press **[OK]**.
2. Use **[▲/▼]** to select "Easy Connect (WPS)", then press **[OK]**.
3. Push the PBC button on your wireless router before the progress bar reaches the end.

   - In case the procedure failed, press **[OK]** to return to the previous screen, then try again.
4. If a connection succeeded, press **[OK]** to finish the setting, then press **[RETURN]** to exit.

PIN Code Method (Netbox PIN)

1. Follow steps 1 to 3 in "Network List (Wireless)" on page 19.
2. Use **[▲/▼/◄/►]** to select "WPS PIN", then press **[OK]**.
3. Use **[◄/►]** to select "Netbox PIN", then press **[OK].**
4. Set up your wireless router with the PIN code shown on your TV screen before the progress bar reaches the end.
   - For details about how to set up your wireless router, please refer to your router manual.
5. "OK" will appear, then press **[OK]**.
6. Press **[RETURN]** to exit.
   - In case the procedure failed, press **[OK]** to return to the previous screen, then try again.

PIN Code Method (Router PIN)

1. Follow steps 1 to 3 in "Network List (Wireless)" on page 19.
2. Use **[▲/▼/◄/►]** to select "WPS PIN", then press **[OK]**.
3. Use **[◄/►]** to select "Router PIN", then press **[OK].**

Continued on next page.

4. Enter the router PIN that you obtained from your router into the router PIN field using **[▲/▼/◄/►]** on the software keyboard.
   • Please refer to your router's user manual to learn where to find the router PIN.
5. Use **[▲/▼/◄/►]** to select "OK", then press **[OK]**.
6. Press **[RETURN]** to exit.
   • In case the procedure failed, press **[OK]** to return to the previous screen, then try again.

8.2 fun-Link (HDMI CEC)

[HOME] → "Settings" → "System" → "fun-Link (HDMI CEC)"

fun-Link (HDMI CEC) allows integrated system control over HDMI and is part of the HDMI standard. This function may not work properly depending on the device connected to the unit. When "fun-Link (HDMI CEC)" setting is set to "On", the following functions will be available.

■ One Touch Play

fun-Link (HDMI CEC) operations are performed using remote control buttons. The TV will automatically be turned On and switched to the appropriate input source signal.

Buttons for one touch play:

- **[▶ (play)]**

■ One Touch Standby

When the connected fun-Link (HDMI CEC) compatible display device is turned Off first and then this unit will be turned Off.

■ System Information

Get & Set Menu Language

The unit recognizes the OSD language set on the TV and automatically sets the same language as the player menu language (OSD menu language) for this unit. Refer to the "Language" on page 16 for available languages.

8.3 HDMI Video Resolution

[HOME] → "Settings" → "Video Out" → "Video Resolution"

Set the resolution of the video signal being output from the HDMI OUT jack.
You can select the desired "Video Resolution" among the settings listed below.

Actual Output Resolution:

Setting in the "Video Resolution"	HDMI Video Output Resolution
HDMI Auto	The highest resolution that your display device supports will automatically be in effect.
1080p	1080p/60
1080i	1080i
720p	720p
480p	480p
480i	480i

Continued on next page.

Note

- Composite video output (VIDEO) jack can only output 480i/60.
- If you wish to have HDMI output and composite video output simultaneously, set the "Video Resolution" to "480i".
- When connected to a TV which supports up to 1080i, this unit does not output 1080p contents. ("1080p" will not appear if the TV does not support it.)
- When connected to a TV which supports up to 720p, this unit does not output 1080p or 1080i contents. ("1080p" or "1080i" will not appear if the TV does not support it.)
- The selected resolution must also be supported by your display device.
- Refer also to your TV's manual.
- When connected to an HDCP incompatible display device, the picture will not be displayed properly.
- The audio signals from the HDMI OUT jack (including the sampling frequency, the number of channels and bit length) may be limited by the connected device.
- Among the display devices that support HDMI, some do not support audio output (for example, projectors).
- When this unit's HDMI OUT jack is connected to a DVI-D compatible display device(s) (HDCP compatible) with an HDMI-DVI converter cable, the signals are output in digital RGB.

Copyright protection system

To play back digital video images via an HDMI connection, it is necessary that both the player and the display device (or an AV receiver / amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your display device (or an AV receiver / amplifier) for more information.

Important copyright information

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.
This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

8.4 Software Update

[HOME] → "Settings" → "System" → "Network Update"

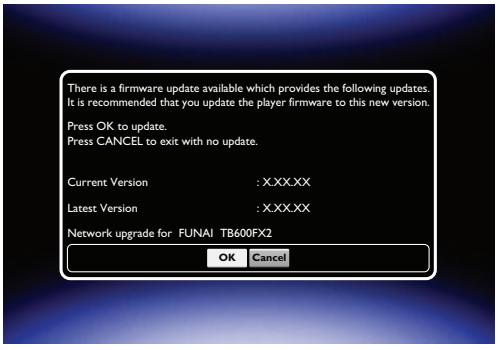
Note

- Software update will not change any of the current settings.
- The version of Netflix will also be updated if a newer version of Netflix is available when updating the software.

Continued on next page.

■ Network Update

1. Use **[◄/►]** to select "Settings" in the home menu, then press **[OK]**.
2. Use **[▲/▼]** to select "System", then press **[OK]**.
3. Use **[▲/▼]** to select "Network Update", then press **[OK]**.
   If a newer software is available, the software update screen will appear. Press **[OK]**.


There is a firmware update available which provides the following updates.
It is recommended that you update the player firmware to this new version.
Press OK to update.
Press CANCEL to exit with no update.
Current Version : X.XX.XX
Latest Version : X.XX.XX
Network upgrade for FUNAI TB600FX2
OK
Cancel

- After a software update is completed, this unit automatically restarts. Please confirm the update result, then press **[OK]**.

Caution

- Please do not unplug the AC adapter, LAN cable or press **[⏻ (Standby/on)]** to set the unit into Standby mode while executing "Network Update".

Note

- In order to update the software via the Internet, you must connect the unit to the Internet and perform the necessary setup.
- For the network connection, refer to "Connection to the Network" on page 11.
- For the network setup, refer to "Network Connection" on page 17.
- Software update will not change any of the current settings.
- The software version of the network services will also be updated if a newer version is available when updating the software.

8.5 Initialize

[HOME] → "Settings" → "System" → "Initialize"

Menus to reset player settings and deactivate network services.

1. Use **[◄/►]** to select "Settings" in the home menu, then press **[OK]**.
2. Use **[▲/▼]** to select "System", then press **[OK]**.
3. Use **[▲/▼]** to select "Initialize", then press **[OK]**.
4. Use **[▲/▼]** to select the desired item, then press **[OK]**.
5. Use **[◄/►]** to select "OK", then press **[OK]**.
6. Press **[HOME]** to exit.

9. TROUBLESHOOTING

Problem	Tip
No power.	Check if the AC adapter is properly connected.
	Unplug the AC adapter once, and wait for 5-10 seconds and then plug it in again.
No sound or picture.	Check if the connected TV is turned On.
	Check if the connections are made securely and correctly.
	Check whether the connected TV or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.)
	Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of the other connected device.
No audio / video signal on the display device via HDMI cable.	If the unit is connected to an unauthorized display device with an HDMI cable, the audio / video signal may not be output.
	Perform an HDMI cable hotplug, by disconnecting the HDMI cable from the TV and this unit. Then reconnect the HDMI cable to both devices while they are powered On.
	Ensure that your HDMI cable is certified.
No audio signal from the loudspeakers of the TV screen.	Assign the audio input to the TV to the corresponding video input.
	Make sure the HDMI cable is not plugged into the HDMI-DVI jack on the TV when using an HDMI signal that has both digital HD video and digital audio signal sources.
	Ensure that the TV's speakers are turned On in the TV menu.
No audio signal from the loudspeakers of the audio system.	Turn On the audio system.
	Set the audio system to the correct external audio input.
	Increase the volume level of the audio system.
Distorted picture.	Sometimes a small amount of picture distortion may appear. This is not a malfunction.
	Connect this unit directly to the TV. If the audio / video cables are connected to a VCR, pictures may be distorted due to the VCR copyright protection system.
No sound or distorted sound.	Adjust the volume.
	Check if speakers are connected correctly.
	Check the HDMI connections.
	Make sure the HDMI cable is not plugged into the HDMI-DVI jack on the TV when using an HDMI signal that has both digital HD video and digital audio signal sources.
	Check the settings in "Audio Out" menu.

Continued on next page.

Problem	Tip
The unit does not respond to the remote control.	Aim the remote control directly at infrared sensor window on the front or the top panel. (Refer to page 7)
	Reduce the distance to infrared sensor window.
	Check the +/– polarity of the batteries and replace both batteries in the remote control if required.
	Go to "IR Signal Check" on page 31.
	To check remote operation, aim the remote at the unit then press any arrow button. The Standby/on Indicator on the unit will turn Off when the button is pressed and turn On again when the button is released. This confirms that the unit is receiving the IR remote signal.
⃠ in the upper right hand corner of the TV screen.	The current operation is not possible.
The unit stops responding.	To completely reset the unit, unplug the AC adapter for 30 seconds.
Cannot connect to the network.	Check to see if there is power on the modem / router.
	Confirm, if the Internet light is showing activity (light blinking) on the modem / router.
	Check network settings on the unit.
	Power cycle the modem's and/or router's AC plug from its AC outlet for 30 seconds and then plug it back in, then try reconnecting cords. If you have a telephone / Internet modem with your cable service then you may have to use its reset button or remove the backup battery to reset this type of modem. Now wait for the lights to show activity and try reconnecting.
	Check the cables connected the router.
	Turn on the DHCP function on the router.
Cannot use the wireless connection.	Once you have activated the wireless connection please wait 30 seconds for the connection to be established after turning On the unit. After this time you can try to access network features.
Cannot connect to the network while my PC is connected to the network.	Check the content of your Internet service contract to see if your Internet Service Provider prevents multiple terminals connecting at the same time.
Cannot use the Netflix feature.	Netflix is only available in the United States.
	Check if the network connection is made properly.
	Visit netflix.com/FUNAI on your PC and become a Netflix member.
Cannot add movies or TV episodes to the instant Queue.	Visit netflix.com on your PC.
	Adding movies or TV episodes may only be done on the PC, not using this unit.
Even though the speed of the Internet connection improves during playback, the picture quality of streaming movie does not improve.	The picture quality does not change during playback.
	The picture quality differs depending on the speed of Internet connection at the time the streaming video is loading.
The picture quality of a streaming movie is poor.	Check the speed of your Internet connection.
	Contact your Internet service provider. (You may need to improve the broadband speed.)

Continued on next page.

Problem	Tip
Streaming movies often stop or start buffering during playback.	Contact your Internet service provider. (You may need to improve the broadband speed.)
Cannot use the Film Fresh / Blockbuster feature.	Film Fresh / Blockbuster is only available in the United States.
	Check if the network connection is made properly.
	Visit filmfresh.roxionow.com/Login (Film Fresh) or www.blockbuster.com/auth/login (Blockbuster) on your PC and create an account.
Cannot use the VUDU service.	VUDU is only available in the United States.
	Check if the network connection is made properly.
	Visit www.vudu.com/product_overview.html on your PC and create an account.
Cannot rent or buy movies / TV shows on VUDU.	You need to activate the VUDU account.
	Log into your account at https://my.vudu.com and check your payment information.
The picture quality of VUDU movie is poor.	Check the speed of your Internet connection. You need speeds of at least 9 Mbps to this player for high quality uninterrupted playback.
VUDU movie often stops or starts buffering during playback.	Contact your Internet service provider to troubleshoot your Internet connection for speed and line quality. Consistent line quality and speed are very important for Internet video playback.
Cannot use the Pandora® feature.	Pandora is only available in the United States.
	Check if the network connection is made properly.
	You must create a Pandora account and activate this unit. (See page 14)
Cannot use the Picasa feature.	Check if the network connection is made properly.
	You must have a Picasa account. If not, create an account on your computer. (See page 14)

Note

- Do not attempt to repair this unit yourself. This may cause severe injury, irreparable damage to your HD Streaming Player and void your warranty.
- Please have available your HD Streaming Player's model and serial number before contacting us. These numbers are available on the cabinet as well as on the packaging.

10. SPECIFICATIONS

General	
Signal system	NTSC Color
AC adapter power source	AC 100 - 240V, 50 / 60 Hz
Power requirements	6.5V DC
Power consumption	6.5 W (Standby: 1.0 W)
Dimensions (width x depth x height)	4.5 x 4.7 x 1.2 inches (114.1 x 118.0 x 29.5 mm)
Weight	0.42 lb. (0.19 kg)
Operating temperature	41°F (5°C) to 104°F (40°C)
Operating humidity	Less than 80 % (no condensation)
Terminals	
DC input	6.5 V, 1000 mA
Audio output (Analog) (RCA jack x 2)	L/R: 2 Vrms (output impedance: more than 1kΩ)
Video output (RCA jack x 1)	1 Vp-p (75Ω)
HDMI output (HDMI OUT jack x 1)	Digital Video: 480i, 480p, 720p, 1080i, 1080p Digital Audio
LAN terminal	10BASE-T / 100BASE-TX
Wireless LAN (Internal)	IEEE 802.11 b/g/n

Note

- The specifications and design of this product are subject to change without notice.

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12. SAFETY INSTRUCTIONS

■ To Avoid the Hazards of Electrical Shock and Fire

- Do not handle the AC adapter with wet hands.
- Do not pull on the AC adapter when disconnecting it from an AC outlet. Grasp it by the AC adapter case to unplug it.
- Do not put your fingers or objects into the unit.

■ Location and Handling

- Do not install the unit in direct sunlight, near strong magnetic fields, in a place subject to dust or strong vibration or on the wall behind the TV.
- To prevent injury, this unit must be securely attached to a wall in accordance with the installation instructions.
- Avoid a place with drastic temperature changes.
- Install the unit in a vertical (w/ mounting bracket included) or horizontal and stable position. Do not place anything directly on top or bottom of the unit.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- Be sure to unplug the AC adapter from the outlet before carrying the unit.

■ Note about Recycling

- This unit's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

- Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.
- For product recycling information, please visit www.funaiamerica.com , click on

on the home page.

■ Notice for Progressive Scan Output

- Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 480 progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output.

13. MAINTENANCE

■ Servicing

- Please refer to relevant topics on "TROUBLESHOOTING" on page 25 before returning the product.
- If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Place the unit into the Standby mode, unplug the AC adapter, and please visit www.funaiamerica.com for Online Support or contact Customer Service 1-877-39-Funai (1-877-393-8624).

■ Cleaning the Cabinet

- Wipe exterior surfaces of the unit with a soft cloth.
- Never use a solvent, thinner, benzene or alcohol to clean the unit. Do not spray insecticide liquid near the unit. Such chemicals may discolor the surface or damage the unit.

■ IR Signal Check

- If the remote control is not working properly, you can use a digital camera (including a cellular phone with built-in camera) to see if it is sending out an infrared signal. See next.

With a digital camera (including built-in cell phone cameras):

Point a digital camera towards the remote control. Push any button on the remote control and look through the digital camera. If the infrared light appears through the camera, the remote control is working.

Or

To check remote operation, aim the remote at the unit then press any arrow button. The Standby/on Indicator on the unit will turn Off when the button is pressed and turn On again when the button is released. This confirms that the unit is receiving the IR remote signal.

14. SUPPLIED ACCESSORIES

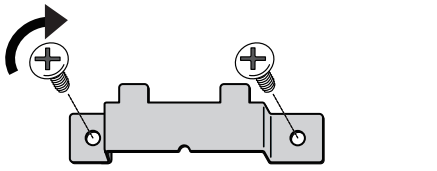
- AC adapter
- Remote Control (NB931UD)
- Batteries (AAA, 1.5 V × 2)
- Audio / video cables
- SETUP MANUAL
- Wall mount bracket
- Wall mount screws
- VUDU sheet

Caution

- Do not use adapters other than the supplied AC adapter for this unit.
- Do not use the supplied AC adapter with any other device.

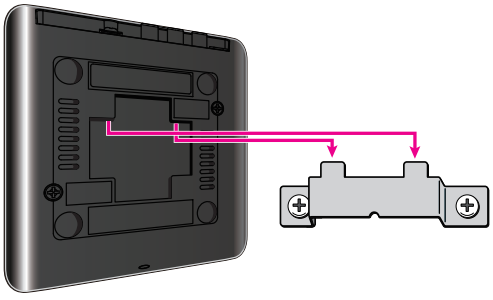
We are not responsible for any damages or injury caused by your misuse described above.

15. INSTALLING ON A WALL OR SHELF



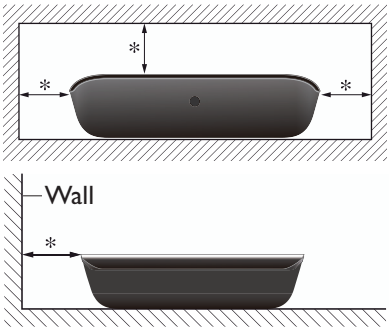
■ Installing on a wall

Be sure to attach the wall-mount bracket securely to a wall. You may find it helpful to drill pilot holes into the mounting surface. Pilot holes should be slightly smaller than the body of the screws for a good hold.



Position the unit so the wall-mount slots in the back of the unit line up with the two projecting tabs of the wall-mount bracket. Place the wall-mount slots over the two projecting tabs on the wall-mount bracket, then slide the unit down until the projecting tabs fit firmly into the wall-mount slots on the unit.

*** Do not place this unit behind the TV as this will block the unit's IR receiver.**



* 3.9 in (10 cm) or more

■ Installing on a shelf

This unit should not be placed in a book case, cabinet or a closed off space unless it has proper ventilation. Make sure to leave space of 3.9 inches (10 cm) or more as displayed.

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17. GLOSSARY

AAC

Advanced Audio Coding (AAC) is a lossy compression and encoding scheme for digital audio. Audio files that have been encoded with AAC generally achieves better sound quality than MP3 at similar bit rates.

Analog Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital Audio".

Aspect Ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as its height).

Blockbuster

Blockbuster is online service which you can rent or purchase movies and TV episodes streamed over the Internet. Blockbuster is only available in the United States.

Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

DNS Server

A server which translates Internet domain names into IP addresses.

Dolby Digital Plus

Dolby Digital Plus is the next generation digital audio compression technology developed as an extension to Dolby Digital.

Film Fresh

Film Fresh is online service which you can rent or purchase movies and TV episodes streamed over the Internet. Film Fresh is only available in the United States.

Gateway

IP address of the electronic devices (such as router) which provide Internet access.

HDMI (High-Definition Multimedia Interface)

A digital interface between audio and video source. It can transmit component video, audio, and control signal with one cable connection.

Hub

A device used for connecting multiple devices to the network.

IP Address

A set of numbers which are assigned to devices participating in a computer network.

LAN (Local Area Network)

A group of computer networks covering a small area like a company, school or home.

Netflix

Netflix is online movie rental service, offering online streaming to customers in the United States.

Pandora®

Pandora is a popular personalized Internet radio service. You can instantly listen to free personalized radio stations streamed over the Internet from Pandora. Pandora is only available in the United States.

PCM (Pulse Code Modulation)

The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio.

Picasa

Picasa allows you to create your original web-based albums and organize your digital photographs and images in chronological order.

Router

A networking device which distinguishes the IP address assigned to each device and routing and forwarding information in the computer network.

Sampling Frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as the sampling frequency. The higher the rate, the better the sound quality.

Continued on next page.

Subnet Mask

A mask which is used to determine what subnet an IP address belongs to.

VUDU

VUDU is a leading HD on-demand video service which utilizes the Internet connection to deliver the highest quality on-demand video and Internet applications.

16:9 Pillarbox

When a 4:3 formatted picture is shown on a 16:9 screen, the complete 4:3 picture is displayed while adding black bars on each side of the screen to hide the blank screen area.

18. ESPAÑOL

18.1 Mando a Distancia

*También puede encenderse la unidad pulsando este botón.

1. **Botón ⏻ (Espera/encender)**

   Pulse el botón para encender la unidad, o para pasar la unidad al modo de espera. (Para apagar completamente la unidad, debe desconectar el adaptador de CA.)

2. **Botón HOME**

   Púlselo para mostrar el menú de inicio.

3. **Botón OPTION**

   Si se encuentra un nuevo software al establecer "Auto comprobación de actualización" en "Enc.", aparecerá el aviso de actualizaciones en la pantalla del menú inicial. Pulse este botón para iniciar la actualización.

4. **Botones de ▲/▼/◄/►**

   Púlselos para seleccionar elementos o configuraciones.

5. **Botón NET APP**

   Púlselo para visualizar el menú de aplicación de la red.

6. **Botón ◄◄ (reverso)**

   Durante la reproducción, púlselo para invertir rápido la reproducción.

7. **Botón ► (reproducir)***

   Púlselo para iniciar o reanudar la reproducción.

8. **Botón I◄◄ (saltar)**

   Durante la reproducción, púlselo una vez para volver al comienzo del título, capítulo, pista o archivo actual.

9. **Botón ■ (detener)**

   Púlselo para detener la reproducción.

10. **Botón NETFLIX**

    Pulse para abrir Netflix.

11. **Botón DISPLAY**

    Púlselo para visualizar el menú desplegable en pantalla.

12. **Botón OK**

    Púlselo para confirmar o seleccionar elementos de menú.

13. **Botón RETURN**

    Púlselo para volver a la pantalla de funciones o menú mostrado anteriormente.

14. **Botón ►► (adelantar)**

    Durante la reproducción, púlselo para avanzar rápido la reproducción.

15. **Botón ►►I (saltar)**

    Durante la reproducción, púlselo para saltar al siguiente título.

16. **Botón ❚❚ (pausar)**

    Púlselo para pausar la reproducción.

17. **Botón VUDU**

    Pulse para abrir VUDU.

Nota

- Cuando la unidad reciba una señal del mando a distancia, parpadeará el indicador de en Espera/encender del panel superior.

18.2 Encontrar la Entrada de Fuente de Video en su TV

Después de haber conectado la unidad a su televisor, ya sea con un cable HDMI o de vídeo y los cables de audio, encuentra la fuente de visualización (fuente de entrada externa) en su televisor.

1. Encienda el televisor.
2. Pulse el botón del control remoto del televisor que tiene acceso a la fuente de entrada externa. Puede ser etiquetado como "SOURCE", "AV", "AUX" o "INPUT" (consulte el manual del usuario del televisor).
3. Conecte el adaptador de CA para esta unidad a la unidad (Toma DC IN) y luego en una toma de CA.

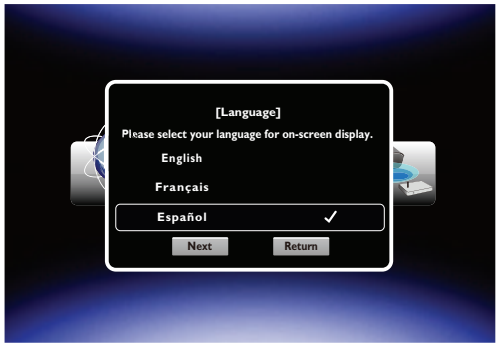
Esta es la fuente correcta de visualización (fuente de entrada externa).

- Si la TV está conectada con un cable HDMI puede que tarde un poco en aparecer la imagen de saludo.
- La pantalla "Please Wait..." solo aparece cuando la unidad está conectada a una TV con un cable HDMI.

18.3 Instalación Inicial

Por favor, siga las instrucciones que se exponen a continuación para completar la configuración inicial.

1. Utilice **[◄/►]** mientras se presenta la pantalla de bienvenida para seleccionar "Next" y pulse luego **[OK]**.
2. Aparecerá la pantalla de configuración de idioma. Utilice **[▲/▼]** para seleccionar el idioma, a continuación, pulse **[OK]**. Después de esto, utilice **[▲/▼/◄/►]** para seleccionar "Next", y luego pulse **[OK]**.



3. Aparecerá la pantalla "Auto comprobación de actualización". Utilice **[◄/►]** para seleccionar el modo deseado y pulse **[OK]**. Después de esto, utilice **[▲/▼/◄/►]** para seleccionar "Next" y luego presione **[OK]**.
   - Aparecerá la pantalla de configuración de red. Con el fin de proceder a la configuración de la red, consulte "Network Connection" en la página 17.
   - Esta unidad detecta automáticamente si un cable de LAN está conectado a ella.
     - Si un cable de LAN está conectado a esta unidad, aparecerá la pantalla "Con conexión de cable".
     - Si un cable de LAN no está conectado a esta unidad, aparecerá la pantalla "Inalámbrico".

ES

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